

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In re Application of:

Robert Levi et al.

Serial No.: 10/618,549

Filed: July 11, 2003

For: GYRO AIDED MAGNETIC COMPASS

Patent Examiner:

Group Art Unit: 2862

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Dear Sir:

In an attempt to fully comply with the duty of disclosure set forth in 37 C.F.R. § 1.56 and in conformance with 37 C.F.R. §§ 1.97 and 1.98, applicant wishes to bring to the attention of the U.S. Patent Office the references listed on the attached PTO-A820.

Copies of the non-US Patent references and six forms PTO-A820 are attached.

If the Examiner believes that a telephone conference would help further the prosecution of this case, he is respectfully requested to contact the undersigned attorney at the listed telephone number.

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as first class mail in an envelope addressed to:  
Commissioner for Patent, PO Box 1450,  
Alexandria, VA 22313-1450 on 4-26-04

by: Rachel Carter

Rachel Carter  
Signature

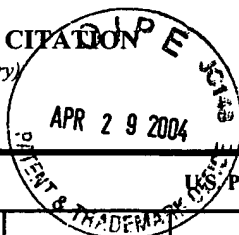
Date of Signature: 4-26-04

Very truly yours,

SNELL & WILMER LLP

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Julio Loza, Esq.  
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Irvine, CA 92614  
Phone 949/253-4924

<b>INFORMATION DISCLOSURE CITATION</b> <i>(Use several sheets if necessary)</i>	Docket Number (Optional)	Application Number
	42616-0600	10/618,549
	Applicant(s)	
	R. Levi et al.	
	Filing Date	Group Art Unit
	July 11, 2003	2862



**PATENT DOCUMENTS**

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		2001/0045128	11/29/2001	McCall et al.			
		2002/0040601	04/11/2002	Fyfe et al.			
		2002/0091482	07/11/2002	Eakle, Jr. et al.			
		2002/0111717	08/15/2002	Scherzinger et al.			
		2002/0128775	09/15/2002	Brodie et al.			
		2002/0143491	10/03/2002	Scherzinger			
		2003/0018430	01/23/2003	Ladetto et al.			
		2,091,964	09/07/1937	L.F. Carter			
		3,583,074	06/08/1971	D.H. Baker et al.			
		4,031,630	06/28/1977	Fowler			
		4,143,467	03/13/1979	Erspamer et al.			

**FOREIGN PATENT DOCUMENTS**

REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

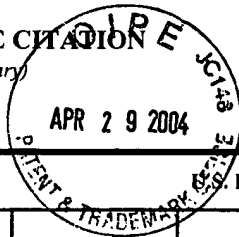
**OTHER DOCUMENTS** *(Including Author, Title, Date, Pertinent Pages, Etc.)*

		LADETTO, Quentin, et al., "Combining Gyroscopes, Magnetic Compass and GPS for Pedestrian Navigation", date unknown, Geodetic Engineering Laboratory, Institute of Geomatics, Swiss Institute of Technology, 8 pg.
		LADETTO, Quentin, " On Foot Navigation: Continuous Step Calibrations Using Both Complementary Recursive Prediction and Adaptive Kalman Filtering", date unknown, Geodetic Laboratory, Institute of Geomatics, Swiss Federal Institute of Technology, 6 pg.

<b>EXAMINER</b>	<b>DATE CONSIDERED</b>
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**EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4,347,730	09/07/1982	Fisher et al.			
		4,611,293	09/09/1986	Hatch et al.			
		4,622,646	11/11/1986	Waller et al.			
		4,656,750	04/14/1987	Pitt et al.			
		4,809,007	02/28/1989	Hassenplug			
		4,851,775	07/25/1989	Kim et al.			
		4,887,081	12/12/1989	Iihoshi et al.			
		4,991,126	02/05/1991	Reiter			
		5,067,083	11/19/1991	Nakayama et al.			
		5,115,238	05/19/1992	Shimizu et al.			
		5,122,960	06/16/1992	Ooka			

**FOREIGN PATENT DOCUMENTS**

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**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

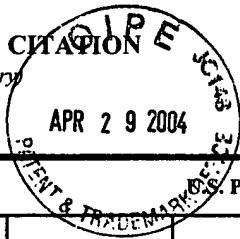
		GABAGLIO, Vincent et al., "Real-Time Calibration of Length of Steps with GPS and Accelerometers", Swiss Federal Institute of Technology, Geodetic Engineering Laboratory, 6 pg.
		LADETTO, Quentin et al., "Digital Magnetic Compass and Gyroscope Integration for Pedestrian Navigation", Faculte ENAC, Institut du Developpment Territorial, Geodetic Laboratory, 10 pg.

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----------	-----------------

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## PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,235,514	08/14/1993	Matsuzaki			
		5,239,264	08/24/1993	Hawks			
		5,287,295	02/15/1994	Ives et al.			
		5,287,297	02/15/1994	Ihara et al.			
		5,287,628	02/22/1994	Yamaguchi et al.			
		5,297,050	03/22/1994	Ichimura et al.			
		5,319,561	06/07/1994	Matsuzaki			
		5,327,348	07/05/1994	Kato			
		5,331,563	07/19/1994	Masumoto et al.			
		5,404,307	04/04/1995	Odagawa			
		5,424,953	06/13/1995	Masumoto et al.			

## FOREIGN PATENT DOCUMENTS

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							YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

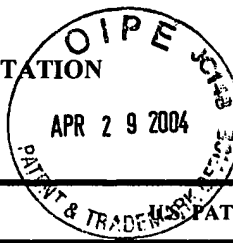

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*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,428,902	07/04/1995	Cheah			
		5,488,788	02/06/1996	Durbin			
		5,583,776	12/10/1996	Levi et al.			
		5,935,191	08/10/1999	Sakanashi et al.			
		5,956,660	11/21/1999	Neumann			
		5,986,583	11/16/1999	Nakano et al.			
		6,018,705	01/25/2000	Gaudet et al.			
		6,032,099	02/29/2000	Fernandez			
		6,052,654	04/18/2000	Gaudet et al.			
		6,067,046	05/23/2000	Nichols			
		6,081,230	06/27/2000	Hoshino et al.			

## FOREIGN PATENT DOCUMENTS

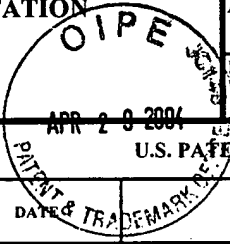
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				U.S. PATENT DOCUMENTS			

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE & TIME	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6,122,960	09/26/2000	Hutchings et al.			
		6,132,391	10/17/2000	Onari et al.			
		6,145,389	11/14/2000	Ebeling et al.			
		6,175,608	01/16/2001	Pyles et al.			
		6,204,807	03/20/2001	Odagiri et al.			
		6,243,660	06/05/2001	Hsu et al.			
		6,282,496	08/28/2001	Chowdhary			
		6,298,314	10/02/2001	Blackadar et al.			
		6,301,964	10/16/2001	Fyfe et al.			
		6,305,221	10/23/2001	Hutchings			
		6,366,855	04/02/2002	Reilly et al.			

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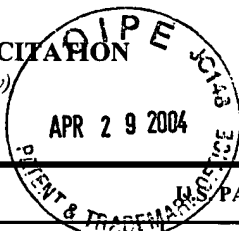
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*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6,408,251	06/18/2002	Azuma			
		6,415,223	07/02/2002	Lin et al.			
		6,513,381	02/04/2003	Fyfe et al.			
		6,522,266	02/18/2003	Soehren et al.			
		6,546,336	04/08/2003	Matsuoka et al.			
		2003/0018430	01/23/2003	Ladetto et al.			
		2002/0089425	07/11/2002	Kubo et al.			

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